Docket No.: 80444(302768)

Application No. 10/535,423 Amendment dated September 24, 2009 Reply to Office Action of June 24, 2009

## AMENDMENTS TO THE CLAIMS

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1 (currently amended). An in-mold coating method in which a resin molded product is molded and coated in a mold cavity formed between female and male molds, the method comprising:

a first step of charging molten resin into a mold cavity;

a second step of molding a resin molded product after charging of the molten resin into the mold cavity by reducing a volume of the mold cavity in accordance with a thermal contraction of the molten resin to shape the molten resin;

a third step of forming a gap for injecting a coating material between a resin molded product and a surface of the mold cavity by slightly opening the mold when the resin molded product solidifies to an extent to which the product can withstand the injecting pressure and flowing pressure of the coating material; and

a fourth step of injecting the coating material into the gap and clamping the mold again, wherein the mold-clamping forces in the second and fourth steps are controlled so that the deformation of the mold by clamping is substantially the same in the second and fourth steps, and

wherein the mold-clamping forces used in the second and fourth steps are substantially the same.

2 (canceled).

3 (withdrawn). The in-mold coating method according to Claim 1, wherein the mold-clamping force used in the second step is smaller than that used in the first step.

4 (withdrawn). The in-mold coating method according to Claim 3, wherein the mold-clamping force used in the second step is 10% to 50% of that used in the first step.

- 5 (withdrawn). An in-mold coating method in which a resin molded product is molded and coated in a mold cavity formed between female and male molds, the method comprising:
  - a first step of charging molten resin into a mold cavity:
  - a second step of molding a resin molded product after charging of the molten resin into

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the mold cavity by reducing a volume of the mold cavity in accordance with a thermal contraction of the molten resin to shape the molten resin;

a third step of forming a gap for injecting a coating material between a resin molded product and a surface of the mold cavity by slightly opening the mold when the resin molded product solidifies to an extent to which the product can withstand the injecting pressure and flowing pressure of the coating material; and

a fourth step of injecting the coating material into the gap and clamping the mold again, wherein the mold-clamping force used in the second step is smaller than that used in the first step.

6 (withdrawn). The in-mold coating method according to Claim 5, wherein the mold-clamping force used in the second step is 10% to 50% of that used in the first step.

7 (withdrawn). The in-mold coating method according to Claim 5, wherein the mold-clamping force used in the second step ranges from 2 to 15 MPa in terms of pressure per unit area.

8 (currently amended). An in-mold coating method in which a resin molded product is molded and coated in a mold cavity formed between female and male molds, the method comprising:

a first step of charging molten resin into a mold cavity;

a second step of molding a resin molded product after charging of the molten resin into the mold cavity by reducing a volume of the mold cavity in accordance with a thermal contraction of the molten resin to shape the molten resin; and

a third step of injecting a coating material between a resin molded product and a surface of the mold cavity when the resin molded product solidifies to an extent to which the product can withstand the injecting pressure and flowing pressure of the coating material,

wherein the mold-clamping forces in the second and third steps are controlled so that the deformation of the mold by clamping is substantially the same in the second and third steps, and wherein the mold-clamping forces used in the second and third steps are substantially the same.

9 (canceled).

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10 (withdrawn). The in-mold coating method according to Claim 8, wherein the mold-clamping force used in the second step is smaller than that used in the first step.

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11 (withdrawn). The in-mold coating method according to Claim 10, wherein the mold-clamping force used in the second step is 10% to 50% of that used in the first step.

12 (withdrawn). An in-mold coating method in which a resin molded product is molded and coated in a mold cavity formed between female and male molds, the method comprising:

a first step of charging molten resin into a mold cavity;

a second step of molding a resin molded product after charging of the molten resin into the mold cavity by reducing a volume of the mold cavity in accordance with a thermal contraction of the molten resin to shape the molten resin; and

a third step of injecting a coating material between a resin molded product and a surface of the mold cavity when the resin molded product solidifies to an extent to which the product can withstand the injecting pressure and flowing pressure of the coating material, wherein the mold-clamping force used in the second step is smaller than that used in the first step.

13 (withdrawn). The in-mold coating method according to Claim 12, wherein the moldclamping force used in the second step is 10% to 50% of that used in the first step.

14 (withdrawn). The in-mold coating method according to Claim 12, wherein the moldclamping force used in the second step ranges from 2 to 15 MPa in terms of in-mold pressure per unit area.

15 (canceled)

16. (new) The in-mold coating method according to Claim 1, wherein the pressure of the moldclamping force in the fourth step on the coating material per unit area ranges from 1 to 20 MPa.

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17. (new) The in-mold coating method according to Claim 1, wherein the pressure of the mold-

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clamping force in the fourth step on the coating material per unit area ranges from 1 to 10 MPa.

18. (new) The in-mold coating method according to Claim 1, wherein the mold-clamping forces used in the second and fourth steps are such that the difference between the mold-clamping

forces in terms of in-mold pressures obtained by dividing the forces by the projected area of the

mold cavity is 5 MPa or less.

19. (new) The in-mold coating method according to Claim 1, wherein the mold-clamping forces

used in the second and fourth steps are such that the difference between the mold-clamping forces in terms of in-mold pressures obtained by dividing the forces by the projected area of the

mold cavity is 3 MPa or less,

20. (new) The in-mold coating method according to Claim 1, wherein the mold-clamping forces

used in the second and fourth steps are such that the difference between the mold-clamping

forces in terms of in-mold pressures obtained by dividing the forces by the projected area of the

mold cavity is 1 MPa or less.

21 (new). The in-mold coating method according to Claim 8, wherein the pressure of the mold-

clamping force in the third step on the coating material per unit area ranges from 1 to 20 MPa.

22 (new). The in-mold coating method according to Claim 8, wherein the pressure of the mold-

clamping force in the third step on the coating material per unit area ranges from 1 to 10 MPa.

23 (new). The in-mold coating method according to Claim 8, wherein the mold-clamping forces

used in the second and third steps are such that the difference in mold-clamping force in terms of

in-mold pressure obtained by dividing mold-clamping force by the projected area of a mold

cavity is 5 MPa or less.

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